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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 1 of 5 Attorney Docket Number 51326-00005 NAT

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (Known)			
		3,888,837	06/10/75	Tsumita et al.	
		3,943,119	03/09/76	Tsumita et al.	
		4,123,427	10/31/78	Dniel	
		4,285,931	08/25/81	Limjoco et al.	
		4,460,503	07/17/84	Savarda et al.	
		4,724,144	02/09/88	Rook et al.	
		4,777,130	10/11/88	Maes	
		4,889,800	12/26/89	Shinnick et al.	
		4,906,742	03/06/90	Young et al.	
		4,952,395	08/28/90	Shinnick et al.	
		4,965,192	10/23/90	Maes	
		4,976,958	12/11/90	Shinnick et al.	
		5,108,745	04/28/92	Horwitz	
		5,154,923	10/13/92	Van Eden et al.	
		5,169,940	12/08/92	Patarroyo	
		5,171,839	12/15/92	Patarroyo	
		5,225,324	07/06/93	McFadden et al.	
		5,254,459	10/19/93	Patarroyo	
		5,268,170	12/07/93	Van Eden et al.	
		6,013,660	01/11/00	Horwitz et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵			
		EP	0499003		08/1992		
		EP	0519218		12/1992		
		GB	2239246		06/1991		
		WO	85/03639		08/1985		

Examiner Signature		Date Considered
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Sheet 2 of 5 Attorney Docket Number 51326-00005 NAT

Application Number	10/534,660
Filing Date	11/28/2005
First Named Inventor	Gunther Harth
Group Art Unit	1617
Examiner Name	Unassigned

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ²	Kind Code ⁴			
		WO	88/02027		03/1988		
		WO	88/05823		08/1988		
		WO	88/06626		09/1988		
		WO	89/05825		06/1989		
		WO	89/12455		12/1989		
		WO	90/00594		01/1990		
		WO	90/02564		03/1990		
		WO	90/10449		09/1990		
		WO	90/15873		12/1990		
		WO	91/04272		04/1991		
		WO	91/14448		10/1991		
		WO	92/01783		02/1992		
		WO	92/01796		02/1992		
		WO	92/04462		03/1992		
		WO	92/16628		10/1992		
		WO	92/21376		12/1992		
		WO	92/21697		12/1992		
		WO	92/22326		12/1992		
		WO	93/07897		04/1993		
		WO	93/14118		07/1993		
		WO	93/14789		08/1993		
		WO	94/02508		02/1994		
		WO	95/01440		01/1995		
		WO	95/01441		01/1995		
		WO	95/14713		06/1995		
		WO	04/45539		06/2004		

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Sheet 3 of 5 Attorney Docket Number 51326-00005 NAT

NON PATENT LITERATURE DOCUMENTS

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

T²

Examiner Initials	Cite No. ¹	Abbott et al., "Structure prediction and active site analysis of the metal binding determinants in γ -glutamylcysteine synthetase," J. Biol. Chem. 276:42099-107 (2001)	
		Bartsch et al., "Stereospecific production of the herbicide phosphinotrichin (Glufosinate) by transamination: cloning, characterization, and overexpression of the gene encoding a phosphinotrichin-specific transaminase in Escherichia coli," App. Environ. Microbiol. 56:7-12 (1990)	
		Campbell et al., "Analytical and Preparative Separation of Diastereomers of L-Buthionine-SR-Sulfoximine, a Potent Inhibitor of Glutathione Biosynthesis," Anal. Biochem. 194:268-77 (1991)	
		Chamberlin et al., "Design and synthesis of conformationally constrained inhibitors of highly-affinity, sodium dependent glutamate transporters," Meth. Enzymol. 296:175-89 (1998)	
		Cooper et al., "Enzymatic reactions of methionine sulfoximine. Conversion to the corresponding α -imino and α -keto acids and to α -ketobutyrate and methane sulfinimide," J. Biol. Chem. 251:6674-82 (1976)	
		Database CAPLUS, Chemical Abstracts on STN, (Columbus Ohio, USA), Abstract No. 50:49285, SVACHLOVA, Effect of L-Ascorbic Acid on the Growth and Metabolism of Mycobacteria Tuberculosis, Rozhledy Tuberk, 1956, Vol. 16, pp. 203-206	
		Eisenberg et al., "Structure-function relationships of glutamine synthetases," Biochim. Biophys. Acta. 1477:122-45 (2000)	
		Gershoff et al., "The relative effect of methionine sulfoximine on different animal species," J. Nutr. 45:451-8 (1951)	
		Gill et al., "Multicopy crystallographic refinement of a relaxed glutamine synthetase from Mycobacterium tuberculosis highlights flexible loops in the enzymatic mechanism and its regulation," Biochemistry 41:9863-72 (2002)	
		Gill et al., "The crystal structure of phosphinotrichin in the active site of glutamine synthetase illuminates the mechanism of enzyme inhibition," Biochemistry 40:1903-12 (2001)	
		Griffith "Mechanism of action, metabolism, and toxicity of buthionine sulfoximine and its higher homologs, potent inhibitors of glutathione biosynthesis," J. Biol. Chem. 257:13704-12 (1982)	

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 4 of 5 Attorney Docket Number 51326-00005 NAT

NON PATENT LITERATURE DOCUMENTS

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		Griffith et al., "Differential inhibition of glutamine and γ -glutamylcysteine synthetases by α -alkyl analogs of methionine sulfoximine that induce convulsions," J. Biol. Chem. 253:2333-8 (1978)	
		Griffith et al., "Inhibition of glutathione biosynthesis by prothionine sulfoximine (S-n Propyl-Homocysteine Sulfoximine), a selective inhibitor of γ -glutamylcysteine synthetase," J. Biol. Chem. 254:1205-10 (1979)	
		Griffith et al., "Potent and Specific Inhibition of Glutathione Synthesis by Buthionine Sulfoximine (S-n-Butyl-Homocysteine Sulfoximine)," J. Biol. Chem. 254:7558-60 (1979)	
		Griffith et al., "Vitamin C protects adult guinea pigs against tissue damage and lethality caused by buthionine sulfoximine-mediate glutathione depletion," FASEB J. 5:A1182 (1991)	
		Griffith, Amino acid sulfoximines: α -ethylmethionine sulfoximine. Meth Enzymol 143:286-91, 1987	
		Griffith et al., Resolution of cysteine and methionine enantiomers, Meth Enzymol 143:166-72, 1987	
		Harth et al., "Treatment of Mycobacterium tuberculosis with antisense oligonucleotides to glutamine synthetase mRNA inhibits glutamine synthetase activity, formation of the poly-L-glutamine/glutamate cell wall structure, and bacterial replication," Proc. Natl. Acad. Sci. USA 97:418-23 (2000)	
		Hoerlein "Glufosinate (phosphothrinicin), a natural amino acid with unexpected herbicidal properties," Rev. Environ. Contamin. Toxicol. 138:73-145 (1994)	
		Liaw et al., "Structural Model for the Reaction Mechanism of Glutamine Synthetase, Based on Five Crystal Structures of Enzyme-Substrate Complexes," Biochemistry 33:675-81 (1994)	
		Logusch et al., "Inhibition of Escherichia coli glutamine synthetase by α - and γ -substituted phosphinotricins," Biochemistry 29:366-72 (1990)	
		Logusch et al., "Substrate variability as a factor in enzyme inhibitor design: Inhibition of ovine brain glutamine synthetase by α - and γ -substituted phosphinotricins," Biochemistry 28:3043-51 (1989)	
		Manning et al., "Identification of L-Methionine-S-sulfoximine as the Diastereomer of L-Methionine-SR-sulfoximine that Inhibits Glutamine Synthetase," Biochemistry 8:2681-5 (1969)	

Examiner Signature	Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/534,660
		Filing Date	11/28/2005
		First Named Inventor	Gunther Harth
		Group Art Unit	1617
		Examiner Name	Unassigned
		Attorney Docket Number	51326-00005.NAT
(use as many sheets as necessary)			

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